

extending from the base portion to form a substantially concave structure,

the base portion and the ~~at least one~~ two lateral side including sides being formed between an upper surface layer and a lower surface layer bounding an interior space,

said ~~at least one~~ two ~~opposed lateral side~~ sides projecting above a plane containing said base portion to form an elevated ~~sidewall~~ sidewalls of the air cushion ~~and forming a substantially U-shape cushioning capability~~ with the base portion for distributing shock forces delivered to at least one of the plurality of interconnected air chambers at one of the two side wall walls and distributing the shock forces throughout a remainder of the plurality of interconnected air chambers including the base portion.

16 ~~2.~~ (Currently Amended) A three dimensional air cushion comprising:

~~at least one~~ a plurality of interconnected air chamber chambers having ~~a sealed peripheral edge,~~

said ~~at least one~~ plurality of interconnected air chamber including chambers defining a base portion and two opposed substantially vertical lateral sides located on opposite sides of the base portion to form a concave structure,

the base portion and the two lateral sides including being formed between an upper surface layer and a lower surface layer bounding an interior space,

said two opposed lateral sides projecting above a plane ~~occupied by~~ containing said base portion to form elevated sidewalls of the air cushion ~~and forming a U-shape~~ cushioning capability with the base portion for distributing shock forces delivered to ~~the~~ at least one of the plurality of interconnected air chambers at one of the two sidewalls and distributing the shock forces throughout a remainder of the plurality of interconnected air chambers including the base portion, and

an inner surface area ~~of said air cushion~~ defined by said upper surface layer being smaller than an outer surface area ~~of said air cushion~~ defined by said lower surface layer.

31 ~~31~~. (Previously Presented) A three dimensional air cushion comprising:

~~at least one~~ a plurality of interconnected air chamber ~~chambers having a sealed peripheral edge,~~

said ~~at least one~~ plurality of interconnected air chamber ~~including chambers defining~~ a base portion and ~~at least one~~ two opposed lateral side ~~sides~~ located on opposite sides of and extending from ~~at least one side of~~ the base portion to form a substantially concave structure,

the base portion and the two lateral side including sides being formed between an upper surface layer and a lower surface layer bounding an interior space,

said ~~at least~~ are two opposed lateral side sides projecting above a plane containing said base portion to form ~~an~~ elevated ~~sidewall~~ sidewalls of the air cushion ~~and forming a~~ substantially U-shape cushioning capability with the base portion for distributing shock forces delivered to at least one of the plurality of interconnected air chambers at one of the sidewall two sidewalls and distributing the shock forces throughout a remainder of the plurality of interconnected air chambers including the base portion; and

at least one recess extending from at least one of said upper surface layer and said lower surface layer and separating portions of said plurality of interconnected air chamber chambers.

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

2¹⁶ 7. (Currently Amended) The three dimensional air cushion as claimed in claim 1, wherein said ~~at least one~~ plurality of interconnected air chamber is chambers are sealed.

17¹⁶ 8. (Currently Amended) The three dimensional air cushion as claimed in claim 2, wherein said ~~at least one~~ plurality of interconnected air chamber is chambers are sealed.

32³¹ 9. (Currently Amended) The three dimensional air cushion as claimed in claim 3, wherein said ~~at least two~~ plurality of interconnected air chambers are sealed.

3¹⁶ 10. (Currently Amended) The three dimensional air cushion as claimed in claim 1, wherein said plurality of interconnected air chamber has chambers have a one-way valve to communicate with open air.

18¹⁶ 11. (Currently Amended) The three dimensional air cushion as claimed in claim 2, wherein said plurality of interconnected air chamber has chambers have a one-way valve to communicate with open air.

33³¹ 12. (Currently Amended) The three dimensional air cushion as claimed in claim 3, wherein said plurality of

interconnected air chambers have a one-way valve to communicate with open air.

⁴ ~~13~~. (Previously Presented) The three dimensional air cushion as claimed in claim 1, wherein the upper surface layer is provided with at least one recessed elongated groove and the lower surface layer is flat and smooth.

¹⁹ ~~14~~. (Previously Presented) The three dimensional air cushion as claimed in claim ~~2~~, where the upper surface layer is provided with at least one recessed elongated groove and the lower surface layer is flat and smooth.

³⁴ ~~15~~. (Previously Presented) The three dimensional air cushion as claimed in claim ~~3~~, wherein the at least one recess is at least one recessed elongated groove in the upper surface layer and the lower surface layer is flat and smooth.

⁵ ~~16~~. (Previously Presented) The three dimensional air cushion as claimed in claim 1, wherein the lower surface layer is provided with at least one recessed elongated groove, and the upper surface layer is flat and smooth.

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20 ~~17~~. (Previously Presented) The three dimensional air cushion as claimed in claim ~~2~~, wherein the lower surface layer is provided with at least one recessed elongated groove, and the upper surface layer is flat and smooth.

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35 ~~18~~. (Previously Presented) The three dimensional air cushion as claimed in claim ~~3~~, wherein the at least one recess is at least one recessed elongated groove in the lower surface layer and the upper surface is flat and smooth.

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~~19~~. (Previously Presented) The three dimensional air cushion as claimed in claim 1, wherein the upper surface layer and the lower surface layer are provided with at least one recessed elongated groove.

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21 ~~20~~. (Previously Presented) The three dimensional air cushion as claimed in claim ~~2~~, wherein the upper surface layer and the lower surface layer are provided with at least one recessed elongated groove.

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36 ~~21~~. (Previously Presented) The three dimensional air cushion as claimed in claim ~~3~~, wherein the upper surface layer and the lower surface layer are provided with at least one recessed elongated groove.

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7 ~~22~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~18~~, wherein said at least one recessed elongated ~~recessed-grooves~~ groove is provided in said upper surface layer and lower surface layer and are connected with each other.

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22 ~~23~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~20~~, where said at least one recessed elongated ~~recessed-grooves~~ groove is provided in said upper surface layer and said lower surface layer and are connected with each other.

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37 ~~24~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~21~~, wherein said at least one recessed elongated ~~recessed-grooves~~ groove is provided in said upper surface layer and said lower surface layer and are connected with each other.

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~~25~~. (Currently Amended) The three dimensional air cushion as claimed in claim 1, ~~wherein said air cushion is~~ further comprising a component in one of a shoe, a sneaker, a protective pad, and a helmet, for providing a buffer and shock-absorbing effect.

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23 ~~26~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~2~~, ~~wherein said air cushion is~~ further

comprising a component in one of a shoe, a sneaker, a protective pad, and a helmet, for providing a buffer and shock-absorbing effect.

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38 ~~27~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~3~~, ~~wherein said air cushion is further comprising~~ a component in one of a shoe, a sneaker, a protective pad, and a helmet, for providing a buffer and shock-absorbing effect.

9 ~~28~~. (Original) The three dimensional air cushion as claimed in claim 1, further including an inlet for filling fluid.

¹⁶
24 ~~29~~. (Original) The three dimensional air cushion as claimed in claim ~~2~~, further including an inlet for filling fluid.

³¹
39 ~~30~~. (Original) The three dimensional air cushion as claimed in claim ~~3~~, further including an inlet for filling fluid.

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10 ~~31~~. (Original) The three dimensional air cushion as claimed in claim ~~28~~, further including a valve device.

²⁴
25 ~~32~~. (Original) The three dimensional air cushion as claimed in claim ~~29~~, further including a valve device.

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40 ~~33~~. (Original) The three dimensional air cushion as claimed in claim ~~30~~, further including a valve device.

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11 ~~34~~. (Currently Amended) The three dimensional air cushion as ~~claim~~ claimed in claim ~~28~~, further including a pump device.

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26 ~~35~~. (Currently Amended) The three dimensional air cushion as ~~claim~~ claimed in claim ~~28~~, further including a pump device.

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41 ~~36~~. (Currently Amended) The three dimensional air cushion as ~~claim~~ claimed in claim ~~30~~, further including a pump device.

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12 ~~37~~. (Currently Amended) The three dimensional air cushion as claims ~~28~~, wherein said plurality of interconnected air ~~chamber is~~ chambers are filled with a liquid fluid.

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27 ~~38~~. (Currently Amended) The three dimensional air cushion as claims ~~28~~, wherein said plurality of interconnected air ~~chamber is~~ chambers are filled with a liquid fluid.

42³⁹ ~~39~~. (Currently Amended) The three dimensional air cushion as claims ~~30~~, wherein said plurality of interconnected air chambers are filled with a liquid fluid.

13⁹ ~~40~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~28~~, wherein said plurality of interconnected air ~~chamber is~~ chambers are filled with a semi-liquid fluid.

28²⁴ ~~41~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~29~~, wherein said plurality of interconnected air ~~chamber is~~ chambers are filled with a semi-liquid fluid.

43³⁹ ~~42~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~30~~, wherein said plurality of interconnected air chambers are filled with a semi-liquid fluid.

14⁹ ~~43~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~28~~, wherein said plurality of interconnected air ~~chamber is~~ chambers are filled with a foam material.

29²⁴ ~~44~~. (Currently Amended) The three dimensional air cushion as claimed in claim ~~29~~, wherein said plurality of

interconnected air ~~chamber is~~ chambers are filled with a foam material.

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44/45. (Currently Amended) The three dimensional air cushion as claimed in claim ~~30~~, wherein said plurality of interconnected air chambers are filled with a foam material.

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15/46. (Currently Amended) The three dimensional air cushion as claimed in claim ~~28~~, wherein said plurality of interconnected air ~~chamber is~~ chambers are filled with a gas other than air.

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30/47. (Currently Amended) The three dimensional air cushion as claimed in claim ~~29~~, wherein said plurality of interconnected air ~~chamber is~~ chambers are filled with a gas other than air.

45/48. (Currently Amended) The three dimensional air cushion as claimed in claim ~~30~~, wherein said plurality of interconnected air chambers are filled with a gas other than air.

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